

## **ABSTRACT**

A semiconductor test system is disclosed which accepts pincards from multiple vendors, each pincard including a local non-volatile memory in which specific calibration data can be stored. Each pincard in the test system may be capable of performing different types of tests on the DUT. Non-volatile memory on the pincard is used to store pincard calibration data, and loadboard and socket related calibration data may also be stored locally in the non-volatile memory of each pincard for use in compensating for signal degradation. Calibration data related to pincard slots (i.e. slot-to-slot skew) may be stored in nonvolatile memory on a test system backplane and used to calibrate slot-to-slot skew of the pincard. Local non-volatile memory may also be used to store commands, data, and error information being generated in or transferred between modules, site controllers and the system controller, so that this information does not need to be regenerated if a system error should occur.